

FORM PTO-1449 (Modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 06000 USA	SERIAL NO.
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT David Geoffrey Brown	
		FILING DATE	GROUP 1761

(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS

EXAM- INER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CS	3 9 9 2 2 9 3	11/16/1976	Sawicki et al.	210	48	
	5 1 3 5 8 6 1	08/04/1992	Pavilon	435	162	
	5 2 4 4 4 7 8	09/14/1993	Jolly	95	46	
	5 2 5 4 1 4 3	10/19/1993	Anazawa et al.	95	46	
	5 4 6 4 5 4 0	11/07/1995	Friesen et al.	210	640	
	5 5 2 2 9 1 7	06/04/1996	Honda et al.	95	46	
CS	5 5 6 5 1 4 9	10/15/1996	Page et al.	261	140.1	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
CS	3 6 3 2 5 7 0	04/07/1988	Germany	C12N	1/00	X	
	4 1 4 3 3 1 4	10/08/1992	Germany	C12FG	3/00		
CS	0 7 3 2 1 4 2	17.06.1998	EPO	B01D	63/02		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

CS	Veeramallu, U.K. et al., "The Effect of CO2 Ventilation of Kinetics and Yields of Cell-Mass and Ethanol in Batch Cultures of Zymomonas Mobilis", <i>Biotechnology Letters</i> , 1986, Vol. 8, No. 11, pp.811-816
	Voolapalli, R. K. et al., "Stability Enhancement of Anaerobic Digestion through Membrane Gas Extraction under Organic Shock Loads", <i>J. Chem. Technol. Biotechnol.</i> , 1998, 73, 153-161
	Gruber, T.H. et al., "Coupling of Production and Downstream Processing in the Continuous Rhamnolipid", <i>DECHEMA Biotechnology Conference 4</i> , VCH Verlagsgesellschaft 1990 pp 1085-1088
	Wilson, R.J.H., "A Device for Reduction of Dissolved CO2 Level in Fermenting Wort or Beer" (Brewing Research Foundation, Nufield, Surrey), <i>J. Inst. Brew.</i> , May-June 1976, Vol. 82, pp. 168-169
	Ridealgh, D., "A Touch of Froth", <i>Process Engineering</i> , November 1998, pp. 34-35
	"Economical De-gassing of Mineral Water with Sophisticated Vacuum Technology", <i>Drink Technology & Marketing</i> , November 1998
	Gruber, J.D., "Carbon Dioxide-An Important Brewery Utility", <i>The Brewers Digest</i> , January 1975, pp. 44-50
	Percheron, G., "Carbon Dioxide Desorption from Fermentation Broth by Use of Oxygen Vectors", <i>Bioprocess Engineering</i> 12 (1995) 11-16, Springer-Verlag
	O'Connor-Cox, E., "Improving Yeast Handling in the Brewery Part 2: Yeast Collection, <i>Brewers' Guardian</i> , February 1998, pp.22-34
	Al-Saffar, H. B. et al., "A Comparison of Porous and Non-Porous Gas-Liquid Membrane Contactors for Gas Separation", <i>Trans IChemE</i> , Vol 75, Part A, October 1997, pp 685-692
	Sirkar, K. K., "Hollow Fiber-Contained Liquid Membranes for Separations: An Overview", <i>Chemical Separations with Liquid Membranes</i> , 1996 American Chemical Society, pp. 222-238
	O'Shaughnessy, C. et al., "The Future of Separations Technology", <i>The Brewer</i> , March 1996, pp.105-110
CS	Product Brochure for trademark, HYDROBANE, Realm Products Limited of Gladstone Road, Croydon, CR0 3BQ, England

EXAMINER C Sherrer	DATE CONSIDERED 3/12/03
-----------------------	----------------------------

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

